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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,212	10/15/2003	Thomas E. Blake III	TRW(FAS)6480	5897
TAROLLI, SUNDHEIM, COVELL & TUMMINO L.L.P. 1300 EAST NINTH STREET, SUITE 1700			EXAMINER	
			KRISHNAMURTHY, RAMESH	
CLEVEVLAND, OH 44114			ART UNIT	PAPER NUMBER
			3753	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/686,212	BLAKE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ramesh Krishnamurthy	3753			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>17 C</u>	october 2006.				
2a)⊠ This action is FINAL . 2b)☐ This	<u> </u>				
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	·				
4) ⊠ Claim(s) <u>1 - 5, 7 - 20 and 22 - 25</u> is/are pendin 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) <u>13 - 20 and 22 - 25</u> is/are allowed. 6) ⊠ Claim(s) <u>1 - 5, 7 and 10 - 12</u> is/are rejection of the company of	wn from consideration.				
Application Papers		,			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examine.	cepted or b) objected to by the drawing(s) be held in abeyance. Set tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal R 6) Other:	ate			

Office Action Summary

Art Unit: 3753

This office action is responsive to amendment filed 10/17/2006.

Claims 1 - 5, 7 - 20 and 22 - 25 are pending.

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5, 7 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Misner (US 2002/0164943) in view of Oppermann et al. (US 2003/0019527).

Misner discloses (Figs. 1 - 6) a pressure relief valve (10) for relieving air pressure from a passenger compartment of a vehicle, the valve comprising:

A base (20) having a peripheral portion, a central opening (25a, 25b) extending through the peripheral portion; and

A plurality of flaps (42a, 42b) for closing the central opening of the base, each flap having an outer end connected with the peripheral portion of the base and an inner end that is movable relative to the peripheral portion and the other flaps;

Each flap having opposite surfaces against which air pressure acts, differential air pressure acting on opposite surfaces causing the flap to move. A support portion (30) is included in the base that divides the central opening into a plurality of openings (25a, 25b). A hinge (44a, 44b) is provided enabling the movement of the inner end of the flap relative to its outer end. A rim is considered to be inherently molded to the base in Misner. The rim additionally includes a locking portion (16) adapted to secure the

valve to a panel of the vehicle, and further being adapted to seal against the panel of the vehicle.

The disclosure of Misner discloses the claimed invention with the exception of explicitly disclosing each flap to move about a hinge wherein the hinge comprises a narrow portion of material formed between the slots in the flap.

Oppermann et al. discloses a pressure relief valve comprising a valve member (70 in Fig. 6 for example) that has a plurality of flaps (72, 74, 76, 78) for the purpose of providing enhanced sensitivity since each flap could deflect with respect to other flaps independently thereby providing quicker relief than possible with an undivided valve member. Furthermore the flaps move about a hinge wherein the hinge comprises a narrow portion of material formed between slots in the flap.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided in Misner each flap of the plurality of flaps to move about a hinge wherein the hinge comprises a narrow portion of material formed between the slots in the flap, for the purpose of providing quicker relief than possible with an undivided valve member, as evident from Oppermann et al.

- 3. Claims 13 20 and 22 25 are allowed.
- 4. Claims 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

5. Applicant's arguments with respect to claims rejected above have been considered but they are not persuasive. Applicant's argument concerning Misner is that If the air exhauster of Misner were modified to have only narrow hinges, the hinges (44a, 44b) would be less likely to bias the flaps (40) because narrow hinges may not provide such a biasing force, rendering the air exhauster of Misner no longer satisfactory for its intended purpose. It is noted that in the combination set forth in the office action above, single flap in Misner is being modified to have a plurality of petals/flaps as taught by Oppermann et al. and as such the hinge portion corresponding to each of the plurality flaps would still be capable of providing the desired biasing force. Concerning the argument that the proposed modification requires a substantial reconstruction and redesign of the primary reference, it is noted that the plurality of petals/flaps in Oppermann et al. is also molded from a single piece and as such could be easily incorporated into the production method used in Misner. Regarding the argument that Oppermann et al. is non-analogous art in comparison to that of Misner, it is noted that both Oppermann et al. and Misner are concerned with the same problem of using a flexible material valve to control air flow thereacross. As for improper hindsight argument in combining the references in the office action, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramesh Krishnamurthy whose telephone number is (571) 272 – 4914. The examiner can normally be reached on Monday - Friday from 10:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Keasel, can be reached on (571) 272 – 4929. The fax phone number for the organization where this application or proceeding is assigned is (571) 273 – 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ramesh Krishnamurthy, Ph.D., PE

Primary Examiner

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